

# *PRE-CRASH SENSING SYSTEM AND METHOD FOR DETECTING AND CLAS- SIFYING OBJECTS*

## **Abstract**

One embodiment of the present invention is a pre-crash sensing system (12) ("PCS system") for a vehicle (18) for processing images within a substantially quick time. This system (12) includes one or more sensors (14) for detecting one or more objects (16) that are located external to the vehicle (18). These sensors (14) are coupled to a controller (22) for transmitting data associated with a detected object (16) to the controller (22). The controller (22) utilizes an algorithm to store this data and the object's identity. Also, the controller (22) utilizes the algorithm to classify the object into a predetermined category when the controller (22) determines that the object (16) requires classification.